

Application Serial No. 10/585,477  
Reply to Office Action of May 24, 2010

PATENT  
Docket: CU-4938

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**Amendments to the Claims**

The listing of claims presented below replaces all prior versions, and listings, of claims in the application.

**Listing of claims:**

1. (currently amended) A wire material used to form ~~[[for]]~~ a coil expander used for a coil expander, the coil expander is used for ~~[[of]]~~ a combination piston ring comprising a piston ring and the coil expander for pressing and urging the piston ring outward in the radial direction thereof, wherein a cross-sectional shape of the coil expander formed by using the wire material thereof is a rectangular shape with four flat surfaces, ~~[[and]]~~ a cross-sectional shape of the wire material is a rectangular shape with a convex curved surface at the longer side of the rectangular cross section, and when the coil expander is formed by coiling using the wire material ~~for a coil expander~~, the convex curved surface of the wire material is deformed to be a flat surface ~~for a coil expander~~, constituting an outer peripheral surface of the coil expander, ~~is formed into a convex curved shape.~~
2. (currently amended.) The wire material ~~for a coil expander~~ according to claim 1, wherein the height<sub>1</sub> ~~of the curved surface~~ in the surface of the wire material<sub>1</sub> ~~for a coil expander, which is formed into~~ of the convex curved surface ~~[[.]]~~ is in a range of 0.03 to 0.1 mm.
3. (currently amended) The wire material ~~for a coil expander~~ according to claim 1, wherein, the wire material includes a concave curved surface at the longer side of the rectangular cross section, and when the coil expander is formed by coiling using the wire material ~~for a coil expander~~, the concave curved surface of the wire material ~~for a coil expander~~, is deformed to be a flat surface constituting an inner peripheral surface of the coil expander, ~~is formed into a concave curved shape.~~

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4. (currently amended) The wire material ~~for a coil expander~~ according to claim 3, wherein, when the height ~~of the curved surface~~ in the surface of the wire material, ~~for a coil expander formed into~~ of the convex curved surface shape is "a" and the height ~~of the curved surface~~ in the surface of the wire material, ~~for a coil expander formed into~~ of the concave curved surface shape is "b",  $a \geq b + 0.005 \text{ mm}$ .

5. (currently amended) The wire material ~~for a coil expander~~ according to claim 1, wherein a radius of curvature of the convex curved surface ~~of outer periphery side surface edges~~, located at both ends in a width direction of the wire material, ~~for a coil expander, of the surface of the wire material for a coil expander formed into the convex curved shape~~ is smaller than the radius of curvature of the convex curved surface ~~of an outer periphery side surface~~ midportion located at the central portion in the width direction of the wire material ~~for a coil expander~~.

6. (currently amended) The wire material ~~for a coil expander~~ according to claim 3, wherein a radius of curvature of the concave curved surface ~~of inner periphery side surface edges~~, located at both ends in a width direction of the wire material, ~~for a coil expander, of the surface of the wire material for a coil expander formed into the concave curved shape~~ is smaller than the radius of curvature of the concave curved surface ~~of an inner periphery side surface~~ midportion located at the central portion in the width direction of the wire material ~~for a coil expander~~.

7. (currently amended) The wire material ~~for a coil expander~~ according to claim 1, wherein a cross-sectional shape side surface of the wire material is rectangular shape with flat surfaces at the shorter sides of the rectangular cross section ~~for a coil expander is flat~~.

Application Serial No. 10/585,477  
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Docket: CU-4938

8. (currently amended) The wire material ~~for a coil expander~~ according to claim 1, wherein the coil expander formed by coiling the wire material is used for a combination oil ring ~~the piston ring is an oil ring~~.

9. (currently amended) The wire material ~~for a coil expander~~ according to claim 1, wherein the wire material ~~for a coil expander~~ is formed of a shape memory alloy.

10. (currently amended) A coil expander, wherein the wire material ~~for a coil expander~~ according to claim 1 is used to form the coil expander.

11. (cancelled)

12. (currently amended) The coil expander according to claim ~~[[11]]~~ 10, wherein the outer peripheral surface of the coil expander is a plasticity processed surface.